

5 THE FOLLOWING IS CLAIMED:

1). A sealant comprising a non-symmetrical tub having at least one fastening feature wherein at least one heat expandable material contacts at least a portion of the tub.

10 2). An automotive floor pan extension comprising an injection molded component having at least one integrally molded locking feature and wherein at least one sealant contacts at least a portion of the injection molded component.

15 3) A sealed region comprising at least three metallic automotive members at least partially in contact with a cavity sealer, wherein said cavity sealer comprises a molded component having at least locking feature, and wherein at least one heat activated sealant contacts at least a portion of said cavity sealer and said at least three metallic automotive members.

20 4). The sealant of Claim 1 wherein said fastening feature comprises at least one weldable metal.

5) The sealant of Claim 1 wherein said fastening feature comprises at least one self-locking tab.

25 6). The automotive floor pan extension of Claim 2 wherein said sealant comprises a heat activated and expandable sealant.

30 7). The sealed region of Claim 3 wherein one of said at least three automotive components comprises a floor pan.

8). The sealant of Claim 1 wherein said tub comprises polyethylene terephthalate.

35 9). The automotive floor pan extension of Claim 2 wherein the injection molded component comprises a fiber reinforced thermoset composite.

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10). The sealed region of Claim 3 wherein said molded component comprises injection moldable polypropylene.

11). The sealed region of Claim 3 wherein said at least one locking feature
10 engages opening defined in at least one of said at least three metallic automotive members.

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FIG. 1A
FIG. 1B
FIG. 1C
FIG. 1D
FIG. 1E

FIG. 1F
FIG. 1G
FIG. 1H
FIG. 1I

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FIG. 1J
FIG. 1K
FIG. 1L
FIG. 1M
FIG. 1N
FIG. 1O

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